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Application

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US 9310243 W 19931026

Abstract (en)

[origin: WO9512011A1] The invention is a process for applying a phosphate coating to a metal substrate in which the metal substrate is contacted with an aqueous activating bath before the phosphate coating is applied. The improved process is obtained by applying ultrasonic vibration energy to the aqueous activating bath. The ultrasonic energy can be applied to the aqueous activating bath when the aqueous activating bath is in contact with the metal substrate or when the metal substrate is not in contact with the aqueous activating bath.

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C23C 22/80

IPC 8 full level

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Citation (search report)

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- [Y] DATABASE WPI Section Ch Week 8420, Derwent World Patents Index; Class E32, AN 84-126303, XP002006637
- See references of WO 9512011A1

Designated contracting state (EPC)

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WO 9512011 A1 19950504; AT E183554 T1 19990915; AU 5540194 A 19950522; AU 679472 B2 19970703; BR 9307897 A 19960910; CN 1106072 A 19950802; DE 69326085 D1 19990923; DE 69326085 T2 20000413; EP 0725844 A1 19960814; EP 0725844 A4 19960911; EP 0725844 B1 19990818; ES 2137348 T3 19991216; JP H09504052 A 19970422; ZA 948135 B 19950626

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